# Index of authors and papers


Abdul-Razzaq, W., In-plane resistivity study in a Cu/Ni superlattice 183 (1993) 53
Adelabu, J.S.A., On the interpretation of optical spectra in GaAs/AlGaAs SL and MQW systems 183 (1993) 264
Ahmed, E., On alternating dynamical systems and percolation 183 (1993) 399
Akayama, M., see Sun, H. 183 (1993) 33
Akinlade, O., Local order and concentration fluctuations in K–Pb and Rb–Pb alloys 183 (1993) 403
Alonso, J.A., see Rubio, A. 183 (1993) 247
Andreev, A.V., see Bartashevich, M.I. 183 (1993) 369
Andreev, A.V., Kudrevatykh, N.V., Razgonyaev, S.M. and Tarasov, E.N., On the spin reorientation in $TbFe_{11}Ti$ and related compounds 183 (1993) 379
Andreev, A.V., Suski, W., Goto, T. and Oguro, I., Magnetic properties of $Tb_{1-x}R_xFe_{10}Si_2$ (R = Y, U) solid solutions 183 (1993) 385
Arora, R., see Kumar, S. 183 (1993) 172
Artman, J.O., see Demczyk, B.G. 183 (1993) 351

Bachlechner, M.E., Böhm, H.M. and Schinner, A., Screening effects on plasmon damping in an electron liquid 183 (1993) 293
Bangwei, Z., Wangyu, H. and Deqi, Z., Magnetic properties of crystalline and amorphous Fe–B alloys prepared by electroless plating 183 (1993) 205
Bartashevich, M.I., Andreev, A.V., Tarasov, E.N., Goto, T. and Yamaguchi, M., Magnetic properties and spontaneous magnetostriction of a $Sm_2Co_7$ single crystal 183 (1993) 369
Bell, T.M., see Migliori, A. 183 (1993) 1
Bianconi, A., see Soldatov, A.V. 183 (1993) 187
Böhm, H.M., see Bachlechner, M.E. 183 (1993) 293
Brommer, P.E., Dubenko, I.S., Franse, J.J.M., Levitin, R.Z., Markosyan, A.S., Radwański, R.J., Snegirev, V.V. and Sokolov, A.V., Field-induced noncollinear magnetic structures in Al-stabilized $RCo_2$ Laves phases 183 (1993) 363
Buchal, C., see Khassanov, I. 183 (1993) 87
Burlachkov, L. and Weger, M., Velocity renormalization near the Mott transition in a perfectly ordered lattice 183 (1993) 283

Chen, C., Many-body theory of BCC transition-metal surfaces 183 (1993) 271
Chieux, P., see Nield, V.M. 183 (1993) 70
Chvoj, Z., Calculations of the phase interface constitution during the non-equilibrium growth of binary eutectics 183 (1993) 156
Cordaro, J.F., Interpretation of the optical absorption by indium ions in zinc oxide 183 (1993) 303

De Boer, F.R., see Takabatake, T. 183 (1993) 108
Demczyk, B.G. and Artman, J.O., Annealing studies of magnetron-sputtered CoCr thin films 183 (1993) 351

Deqi, Z., see Bangwei, Z. 183 (1993) 205
Deriglazov, V.V., see Toperverg, B.P. 183 (1993) 326
Deriu, A., The power of quasielastic neutron scattering to probe biophysical systems 183 (1993) 331
Diviš, M. and Kuriplach, J., Electronic structure and crystal field in REMg and RERh (RE = rare earth) intermetallics 183 (1993) 25
Dubenko, I.S., see Brommer, P.E. 183 (1993) 363
Dwivedi, P.K., see Srivastava, S.K. 183 (1993) 409

El-Kabany, N.A., see Hafiz, M.M. 183 (1993) 392
Etesse, P., Ward, A.M., House, W.V. and Kobayashi, R., Spin-lattice relaxation and self-diffusion near the critical point of carbon dioxide 183 (1993) 45
Evans, M.W., The photon's magnetostatic flux density $\hat{B}_{II}$ 183 (1993) 103

Fink, C., see Khassanov, I. 183 (1993) 87
Fisk, Z., see Migliori, A. 183 (1993) 1
Franse, J.J.M., see Brommer, P.E. 183 (1993) 363
Fujii, H., see Takabatake, T. 183 (1993) 108
Fujii, H., see Sun, H. 183 (1993) 33

Gasser, W., Second-order theory of the electron gas revisited 183 (1993) 217
Goto, T., see Bartashevich, M.I. 183 (1993) 369
Goto, T., see Andreev, A.V. 183 (1993) 385
Gurnitskaya, E.P., see Krasny, Yu.P. 183 (1993) 115
Gurnitskaya, E.P., see Krasny, Yu.P. 183 (1993) 123
Gurnitskaya, E.P., see Krasny, Yu.P. 183 (1993) 130

Hafiz, M.M., Hammad, F.H. and El-Kabany, N.A., Short- and medium-range order in Se–Ge glassy systems (I) Effect of composition 183 (1993) 392
Hammad, F.H., see Hafiz, M.M. 183 (1993) 392
Hou, B., Wang, M., Lu, X., Xu, Y. and Shi, C., ESR study on $Eu^{2+}$ in crystallite $BaSO_4$ 183 (1993) 83
House, W.V., see Etesse, P. 183 (1993) 45

Isoda, H., see Kawashima, R. 183 (1993) 135
Ivanchenko, T.S., see Soldatov, A.V. 183 (1993) 187
Iwamatsu, M., Calculation of the structure factor of expanded liquid cesium using the random phase approximation with one-component-plasma reference 183 (1993) 419
Iwasaki, H., see Takabatake, T. 183 (1993) 108

Jirák, Z., Pollert, E. and Vratislav, S., The cooperative Jahn–Teller effect in $BaFe_{2.5}Mn_{9.5}O_{19}$ 183 (1993) 96

Katrich, S.A., see Popov, V.A. 183 (1993) 211
Kawashima, R., Nishimura, S. and Isoda, H., Study on nonlinear and nonequilibrium phenomena of a samarium nitrate crystal by measuring time series of AC conductivities 183 (1993) 135
Kempiński, W., see Sveleba, S. 183 (1993) 183

Khassanov, I., Klauda, M., Buchal, C., Fink, C., Kragler, K., Lippert, M. and Saemann-Ischenko, G., High-dose ion implantation in $YBa_2Cu_3O_{7-\delta}$-films 183 (1993) 87
Kim, S.-C., see Kwon, T.-H. 183 (1993) 75
Klauda, M., see Khassanov, I. 183 (1993) 87
Kobayashi, R., see Etesse, P. 183 (1993) 45
Kovalenko, N.P., see Krasny, Yu.P. 183 (1993) 115
Kovalenko, N.P., see Krasny, Yu.P. 183 (1993) 123
Kovalenko, N.P., see Krasny, Yu.P. 183 (1993) 130
Kragler, K., see Khassanov, I. 183 (1993) 87
Krasny, Yu.P., Kovalenko, N.P., Mikho, V.V. and Gurnitskaya, E.P., Thermodynamic properties of amorphous ferromagnets near the Curie point (I) 183 (1993) 115
Krasny, Yu.P., Kovalenko, N.P., Mikho, V.V. and Gurnitskaya, E.P., Low-temperature behaviour of amorphous ferromagnets (II) 183 (1993) 123
Krasny, Yu.P., Kovalenko, N.P., Mikho, V.V. and Gurnitskaya, E.P., Spectrum of magnon excitations in amorphous ferromagnets (III) 183 (1993) 130
Kudrevatykh, N.V., see Andreev, A.V. 183 (1993) 379
Kumar, A., see Kumar, S. 183 (1993) 172
Kumar, A., see Srivastava, S.K. 183 (1993) 409
Kumar, S., Arora, R. and Kumar, A., High-field conduction in a-$Se_{80}Te_{20}$ and a-$Se_{80}Te_{10}M_{10}$ (M = Ag, Cd or Sb) 183 (1993) 172
Kuriplach, J., see Diviš, M. 183 (1993) 25
Kwon, S.-D., see Kwon, T.-H. 183 (1993) 75
Kwon, T.-H., Kwon, S.-D., Yoon, Z.-H., Sohn, Y.-K. and Kim, S.-C., Thermal properties of KCl in a modified Einstein model 183 (1993) 75

Lei, M., see Migliori, A. 183 (1993) 1
Leisure, R.G., see Migliori, A. 183 (1993) 1
Levitin, R.Z., see Brommer, P.E. 183 (1993) 363
Liberis, J.S., see Ren, L. 183 (1993) 40
Lippert, M., see Khassanov, I. 183 (1993) 87
López, J.M., see Rubio, A. 183 (1993) 247
Lu, X., see Hou, B. 183 (1993) 83

Manoukian, E.B., Čerenkov resonances and the Casimir geometry 183 (1993) 179
Markosyan, A.S., see Brommer, P.E. 183 (1993) 363
McGreevy, R.L., see Nield, V.M. 183 (1993) 70
Migliori, A., Sarrao, J.L., Visscher, W.M., Bell, T.M., Lei, M., Fisk, Z. and Leisure, R.G., Resonant ultrasound spectroscopic techniques for measurement of the elastic moduli of solids 183 (1993) 1
Mikhailova, V.E., see Toperverg, B.P. 183 (1993) 326
Mikho, V.V., see Krasny, Yu.P. 183 (1993) 115
Mikho, V.V., see Krasny, Yu.P. 183 (1993) 123
Mikho, V.V., see Krasny, Yu.P. 183 (1993) 130

Nakamoto, G., see Takabatake, T. 183 (1993) 108
Nakotte, H., see Takabatake, T. 183 (1993) 108
Nield, V.M., McGreevy, R.L., Chieux, P., Verkerk, P. and Van der Ende, P., Continuity of short-range order at the melting/freezing point in rubidium 183 (1993) 70

Nishimura, S., see Kawashima, R. 183 (1993) 135

Oguro, I., see Andreev, A.V. 183 (1993) 385
Okoye, C.M.I. and Pal, S., Lattice dynamics of γ-iron 183 (1993) 279

Pal, S., see Okoye, C.M.I. 183 (1993) 279
Pollert, E., see Jirák, Z. 183 (1993) 96
Polovinko, I., see Sveleba, S. 183 (1993) 183
Popov, V.A. and Katrich, S.A., Studies of the frequency dependence of the EPR line-width in $CsMnCl_3 \cdot 2H_2O$ 183 (1993) 211

Raaen, S., see Sørland, G.H. 183 (1993) 415
Radwański, R.J., see Brommer, P.E. 183 (1993) 363
Rajan, K.G., see Sahu, P.C. 183 (1993) 145
Ramamurthy, V., On the lattice dynamics of alkali metals 183 (1993) 321
Razgonyaev, S.M., see Andreev, A.V. 183 (1993) 379
Ren, L. and Liberis, J.S., $1/f$-Noise in the Hall voltage of epitaxial n-GaAs 183 (1993) 40
Roth, Y., The s-physics of narrow samples 183 (1993) 161
Rubio, A., Alonso, J.A., López, J.M. and Stott, M.J., Surface plasmon excitations in $C_{60}$, $C_{60}K$ and $C_{60}H$ clusters 183 (1993) 247

Saemann-Ischenko, G., see Khassanov, I. 183 (1993) 87
Sahu, P.C., Yousuf, M. and Rajan, K.G., Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature 183 (1993) 145
Sarrao, J.L., see Migliori, A. 183 (1993) 1
Schinner, A., see Bachlechner, M.E. 183 (1993) 293
Schneider, M. and Sigmund, E., Transitive coupled electron–phonon systems 183 (1993) 57
Sechovský, V., see Takabatake, T. 183 (1993) 108
Shi, C., see Hou, B. 183 (1993) 83
Sigmund, E., see Schneider, M. 183 (1993) 57
Sinha, T.P., Electronic states and $Fe^{2+}$ quadrupole splitting in $Fe[(CH_3)_2SO]_6(ClO_4)_2$ under orbit–lattice interaction 183 (1993) 312
Snegirev, V.V., see Brommer, P.E. 183 (1993) 363
Sohn, Y.-K., see Kwon, T.-H. 183 (1993) 75
Sokolov, A.V., see Brommer, P.E. 183 (1993) 363
Soldatov, A.V., Ivanchenko, T.S. and Bianconi, A., Unoccupied states in the rare earth monosulfides 183 (1993) 187
Sørland, G.H. and Raaen, S., A photoemission investigation of deposition rate dependent growth of europium on silver films 183 (1993) 415
Srivastava, S.K., Dwivedi, P.K. and Kumar, A., Steady state and transient photoconductivity in amorphous thin films of $Se_{100-x}In_x$ 183 (1993) 409
Stepišnik, J., Time-dependent self-diffusion by NMR spin-echo 183 (1993) 343
Stott, M.J., see Rubio, A. 183 (1993) 247
Sun, H., Akayama, M., Tatami, K. and Fujii, H., Magnetic properties of $YFe_{12-x}Mo_x$ and $YFe_{12-x}Mo_xN_y$ ($0.5 \leqslant x \leqslant 4.0$, $y \approx 1$) 183 (1993) 33
Suski, W., see Andreev, A.V. 183 (1993) 385
Suzuki, A., A study of magnetophonon resonance associated with high-field electronic transport 183 (1993) 191

Sveleba, S., Zhmurko, V., Polovinko, I., Trybula, Z., Kempiński, W. and Żuk, T., The influence of incommensurate modulation on dielectric properties of $[N(CH_3)_4]_2ZnCl_4$ and $[N(CH_3)_4]_2CoCl_4$ crystals 183 (1993) 183

Takabatake, T., Iwasaki, H., Nakamoto, G., Fujii, H., Nakotte, H., De Boer, F.R. and Sechovský, V., Anisotropic effects in the antiferromagnetic Kondo compound CePtSn 183 (1993) 108
Tarasov, E.N., see Bartashevich, M.I. 183 (1993) 369
Tarasov, E.N., see Andreev, A.V. 183 (1993) 379
Tatami, K., see Sun, H. 183 (1993) 33
Toperverg, B.P., Deriglazov, V.V. and Mikhailova, V.E., On the studies of spin-wave dynamics in ferromagnets by polarized neutron scattering 183 (1993) 326
Trybula, Z., see Sveleba, S. 183 (1993) 183

Van der Ende, P., see Nield, V.M. 183 (1993) 70
Verkerk, P., see Nield, V.M. 183 (1993) 70
Visscher, W.M., see Migliori, A. 183 (1993) 1
Vratislav, S., see Jirák, Z. 183 (1993) 96

Wang, M., see Hou, B. 183 (1993) 83
Wangyu, H., see Bangwei, Z. 183 (1993) 205
Ward, A.M., see Etesse, P. 183 (1993) 45
Weger, M., see Burlachkov, L. 183 (1993) 283

Xu, Y., see Hou, B. 183 (1993) 83

Yamaguchi, M., see Bartashevich, M.I. 183 (1993) 369
Yoon, Z.-H., see Kwon, T.-H. 183 (1993) 75
Yousuf, M., see Sahu, P.C. 183 (1993) 145

Zheng, W.-C., Investigation of the stress dependences of optical and EPR spectra for a $KMgF_3:V^{2+}$ crystal 183 (1993) 317
Zhmurko, V., see Sveleba, S. 183 (1993) 183
Zoppi, M., Neutron scattering of homonuclear diatomic liquids 183 (1993) 235
Żuk, T., see Sveleba, S. 183 (1993) 183

# Analytic subject index


*a-$Se_{80}Te_{20}$*
– High-field conduction in — and a-$Se_{80}Te_{10}M_{10}$ (M = Ag, Cd or Sb) - Kumar et al. 183 (1993) 172
*a-$Se_{80}Te_{10}M_{10}$*
– High-field conduction in a-$Se_{80}Te_{20}$ and — (M = Ag, Cd or Sb) - Kumar et al. 183 (1993) 172
*Alkali metals*
– On the lattice dynamics of — - Ramamurthy 183 (1993) 321
*Amorphous thin films*
– Steady state and transient photoconductivity in — of $Se_{100-x}In_x$ - Srivastava et al. 183 (1993) 409
*Annealing*
– — studies of magnetron-sputtered CoCr thin films - Demczyk and Artman 183 (1993) 351

*$BaSO_4$ : Eu*
– ESR study on $Eu^{2+}$ in crystallite $BaSO_4$ - Hou et al. 183 (1993) 83
*Binary eutectics*
– Calculations of the phase interface constitution during the non-equilibrium growth of — - Chvoj 183 (1993) 156
*Biophysical systems*
– The power of quasielastic neutron scattering to probe — - Deriu 183 (1993) 331
*Bloch law*
– Low-temperature behaviour of amorphous ferromagnets (II) - Krasny et al. 183 (1993) 123
*Born–Oppenheimer approximation*
– The s-physics of narrow samples - Roth 183 (1993) 161

*$C_{60}$ clusters*
– Surface plasmon excitations in $C_{60}$, $C_{60}K$ and $C_{60}H$ clusters - Rubio et al. 183 (1993) 247
*Casimir geometry*
– Čerenkov resonances and the — - Manoukian 183 (1993) 179
*Čerenkov radiation*
– Čerenkov resonances and the Casimir geometry - Manoukian 183 (1993) 179
*Čerenkov resonances*
– — and the Casimir geometry - Manoukian 183 (1993) 179
*CGW model*
– On the lattice dynamics of alkali metals - Ramamurthy 183 (1993) 321
*$Co_2$*
– Spin-lattice relaxation and self-diffusion near the critical point of carbon dioxide - Etesse et al. 183 (1993) 45
*CoCr thin films*
– Annealing studies of magnetron-sputtered — - Demczyk and Artman 183 (1993) 351
*Concentration fluctuations*
– Local order and — in K–Pb and Rb–Pb alloys - Akinlade 183 (1993) 403
*Conductivity, high field*
– High-field conduction in a-$Se_{80}Te_{20}$ and a-$Se_{80}Te_{10}M_{10}$ (M = Ag, Cd or Sb) - Kumar et al. 183 (1993) 172

*Coulomb interaction, screened*
– Velocity renormalization near the Mott transition in a perfectly ordered lattice - Burlachkov and Weger 183 (1993) 283
*Critical phenomena*
– Spin-lattice relaxation and self-diffusion near the critical point of carbon dioxide - Etesse et al. 183 (1993) 45
*Crossover*
– On the lattice dynamics of alkali metals - Ramamurthy 183 (1993) 321
*Crystal field*
– Electronic structure and — in REMg and RERh (RE = rare earth) intermetallics - Diviš and Kuriplach 183 (1993) 25
– Anisotropic effects in the antiferromagnetic Kondo compound CePtSn - Takabatake et al. 183 (1993) 108
*Crystal-field theory*
– Investigation of the stress dependences of optical and EPR spectra for a $KMgF_3:V^{2+}$ crystal - Zheng 183 (1993) 317
*Crystal growth, nonequilibrium*
– Calculations of the phase interface constitution during the non-equilibrium growth of binary eutectics - Chvoj 183 (1993) 156
*Cs, liquid*
– Calculation of the structure factor of expanded liquid cesium using the random phase approximation with one-component-plasma reference - Iwamatsu 183 (1993) 419
*Curie temperature*
– Thermodynamic properties of amorphous ferromagnets near the Curie point (I) - Krasny et al. 183 (1993) 115

*Diatomic liquids, homonuclear*
– Neutron scattering of homonuclear diatomic liquids - Zoppi 183 (1993) 235
*Dielectric function*
– Velocity renormalization near the Mott transition in a perfectly ordered lattice - Burlachkov and Weger 183 (1993) 283
*Dielectric properties*
– The influence of incommensurate modulation on — of $[N(CH_3)_4]_2ZnCl_4$ and $[N(CH_3)_4]_2CoCl_4$ crystals - Sveleba et al. 183 (1993) 183
*Dipolar forces*
– On the studies of spin-wave dynamics in ferromagnets by polarized neutron scattering - Toperverg et al. 183 (1993) 326
*Dispersion curves*
– On the lattice dynamics of alkali metals - Ramamurthy 183 (1993) 321
*Doping concentration*
– ESR study on $Eu^{2+}$ in crystallite $BaSO_4$ - Hou et al. 183 (1993) 83
*Dynamical systems, alternating*
– On alternating dynamical systems and percolation - Ahmed 183 (1993) 399

*Einstein model*
– Thermal properties of KCl in a modified — - Kwon et al. 183 (1993) 75
*Elastic moduli, solids*
– Resonant ultrasound spectroscopic techniques for measurement of the elastic moduli of solids - Migliori et al. 183 (1993) 1

*Electrical resistivity*
– — and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
*Electroless plating technique*
– Magnetic properties of crystalline and amorphous Fe–B alloys prepared by electroless plating - Bangwei et al. 183 (1993) 205
*Electron gas, second-order theory*
– Second-order theory of the electron gas revisited - Gasser 183 (1993) 217
*Electronic structure*
– — and crystal field in REMg and RERh (RE = rare earth) intermetallics - Diviš and Kuriplach 183 (1993) 25
*EPR*
– Studies of the frequency dependence of the — line-width in $CsMnCl_3 \cdot 2H_2O$ - Popov and Katrich 183 (1993) 211
– Investigation of the stress dependences of optical and — spectra for a $KMgF_3:V^{2+}$ crystal - Zheng 183 (1993) 317
*ESR*
– — study on $Eu^{2+}$ in crystallite $BaSO_4$ - Hou et al. 183 (1993) 83
*Eu*
– A photoemission investigation of deposition rate dependent growth of europium on silver films - Sørland and Raaen 183 (1993) 415
*Exchange interaction, 3d–4f*
– Field-induced noncollinear magnetic structures in Al-stabilized $RCo_2$ Laves phases - Brommer et al. 183 (1993) 363

*Fe–B alloys*
– Magnetic properties of crystalline and amorphous — prepared by electroless plating - Bangwei et al. 183 (1993) 205
*$Fe[(CH_3)_2SO]_6(ClO_4)_2$*
– Electronic states and $Fe^{2+}$ quadrupole splitting in — under orbit–lattice interaction - Sinha 183 (1993) 312
*Ferrimagnetism*
– Field-induced noncollinear magnetic structures in Al-stabilized $RCo_2$ Laves phases - Brommer et al. 183 (1993) 363
*Ferromagnets*
– On the studies of spin-wave dynamics in — by polarized neutron scattering - Toperverg et al. 183 (1993) 326
*Ferromagnets, amorphous*
– Thermodynamic properties of amorphous ferromagnets near the Curie point (I) - Krasny et al. 183 (1993) 115
– Low-temperature behaviour of amorphous ferromagnets (II) - Krasny et al. 183 (1993) 123
– Spectrum of magnon excitations in amorphous ferromagnets (III) - Krasny et al. 183 (1993) 130
*Feynman diagrams*
– Second-order theory of the electron gas revisited - Gasser 183 (1993) 217
*Film stress*
– Annealing studies of magnetron-sputtered CoCr thin films - Demczyk and Artman 183 (1993) 351
*FLAPW method*
– Electronic structure and crystal field in REMg and RERh (RE = rare earth) intermetallics - Diviš and Kuriplach 183 (1993) 25

*Freezing*
– Continuity of short-range order at the melting/ — point in rubidium - Nield et al. 183 (1993) 70

*GaAs/AlGaAs systems*
– On the interpretation of optical spectra in GaAs/AlGaAs SL and MQW systems - Adelabu 183 (1993) 264
*Green function*
– Studies of the frequency dependence of the EPR line-width in $CsMnCl_3 \cdot 2H_2O$ - Popov and Katrich 183 (1993) 211
– Second-order theory of the electron gas revisited - Gasser 183 (1993) 217
*Green function method*
– Spectrum of magnon excitations in amorphous ferromagnets (III) - Krasny et al. 183 (1993) 130
*Growth modes*
– A photoemission investigation of deposition rate dependent growth of europium on silver films - Sørland and Raaen 183 (1993) 415

*Hard magnetic materials*
– Magnetic properties of $Tb_{1-x}R_xFe_{10}Si_2$ (R = Y, U) solid solutions - Andreev et al. 183 (1993) 385
*High-field magnetization*
– Magnetic properties and spontaneous magnetostriction of a $Sm_2Co_7$ single crystal - Bartashevich et al. 183 (1993) 369
*High-field relaxive transport*
– A study of magnetophonon resonance associated with high-field electronic transport - Suzuki 183 (1993) 191
*High pressure*
– Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
*High temperature*
– Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
*High-temperature superconductor*
– High-dose ion implantation in $YBa_2Cu_3O_{7-\delta}$-films - Khassanov et al. 183 (1993) 87
*Hysteresis*
– Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145

*In-plane electrical resistivity*
– In-plane resistivity study in a Cu/Ni superlattice - Abdul-Razzaq 183 (1993) 53
*Incommensurate structures*
– The influence of incommensurate modulation on dielectric properties of $[N(CH_3)_4]_2ZnCl_4$ and $[N(CH_3)_4]_2CoCl_4$ crystals - Sveleba et al. 183 (1993) 183
*Interband scattering*
– Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
*Interface formation*
– A photoemission investigation of deposition rate dependent growth of europium on silver films - Sørland and Raaen 183 (1993) 415
*Interlayer coupling*
– In-plane resistivity study in a Cu/Ni superlattice - Abdul-Razzaq 183 (1993) 53

*Inverse Faraday effect*
– The photon's magnetostatic flux density $\hat{B}_{\Pi}$ - Evans 183 (1993) 103
*Ion implantation*
– High-dose — in $YBa_2Cu_3O_{7-\delta}$-films - Khassanov et al. 183 (1993) 87

*Jahn–Teller effect*
– The cooperative — in $BaFe_{2.5}Mn_{9.5}O_{19}$ - Jirák et al. 183 (1993) 96
*Jellium*
– Screening effects on plasmon damping in an electron liquid - Bachlechner et al. 183 (1993) 293

*KCl*
– Thermal properties of — in a modified Einstein model - Kwon et al. 183 (1993) 75
*$KMgF_3$*
– Investigation of the stress dependences of optical and EPR spectra for a — :$V^{2+}$ crystal - Zheng 183 (1993) 317
*Kondo compound*
– Anisotropic effects in the antiferromagnetic — CePtSn - Takabatake et al. 183 (1993) 108
*K–Pb alloys*
– Local order and concentration fluctuations in K–Pb and Rb–Pb alloys - Akinlade 183 (1993) 403

*Lattice dynamics*
– Thermal properties of KCl in a modified Einstein model - Kwon et al. 183 (1993) 75
– — of γ-iron - Okoye and Pal 183 (1993) 279
*Laves phases, $RCo_2$*
– Field-induced noncollinear magnetic structures in Al-stabilized $RCo_2$ Laves phases - Brommer et al. 183 (1993) 363
*Line-width*
– Studies of the frequency dependence of the EPR — in $CsMnCl_3 \cdot 2H_2O$ - Popov and Katrich 183 (1993) 211
*Liquid metals*
– Continuity of short-range order at the melting/freezing point in rubidium - Nield et al. 183 (1993) 70
*Local elastic constant*
– Investigation of the stress dependences of optical and EPR spectra for a $KMgF_3$:$V^{2+}$ crystal - Zheng 183 (1993) 317
*Local order*
– — and concentration fluctuations in K–Pb and Rb–Pb alloys - Akinlade 183 (1993) 403
*Localized electronic levels*
– Transitive coupled electron–phonon systems - Schneider and Sigmund 183 (1993) 57
*Low-temperature behaviour*
– — of amorphous ferromagnets (II) - Krasny et al. 183 (1993) 123

*Magnetic properties*
– — of $YFe_{12-x}Mo_x$ and $YFe_{12-x}Mo_xN_y$ ($0.5 \leqslant x \leqslant 4.0$, $y \approx 1$) - Sun et al. 183 (1993) 33
– — of crystalline and amorphous Fe–B alloys prepared by electroless plating - Bangwei et al. 183 (1993) 205
– Annealing studies of magnetron-sputtered CoCr thin films - Demczyk and Artman 183 (1993) 351
– On the spin reorientation in $TbFe_{11}Ti$ and related compounds - Andreev et al. 183 (1993) 379

*Magnetophonon resonance*
– A study of — associated with high-field electronic transport - Suzuki 183 (1993) 191
*Magnetostatic flux density, photon*
– The photon's magnetostatic flux density $\hat{B}_{\Pi}$ - Evans 183 (1993) 103
*Magnon excitations*
– Spectrum of — in amorphous ferromagnets (III) - Krasny et al. 183 (1993) 130
*Many-body effects*
– Many-body theory of BCC transition-metal surfaces - Chen 183 (1993) 271
*Matsubara diagrammatic approach*
– Second-order theory of the electron gas revisited - Gasser 183 (1993) 217
*Medium-range order*
– Short- and — in Se–Ge glassy systems (I) Effect of composition - Hafiz et al. 183 (1993) 392
*Melting*
– Continuity of short-range order at the — /freezing point in rubidium - Nield et al. 183 (1993) 70
*Metal–insulator transition*
– Velocity renormalization near the Mott transition in a perfectly ordered lattice - Burlachkov and Weger 183 (1993) 283
*Metamagnetism*
– Anisotropic effects in the antiferromagnetic Kondo compound CePtSn - Takabatake et al. 183 (1993) 108
*Mobility fluctuations*
– 1/*f*-Noise in the Hall voltage of epitaxial n-GaAs - Ren and Liberis 183 (1993) 40
*Modulation waves, incommensurate*
– The influence of incommensurate modulation on dielectric properties of $[N(CH_3)_4]_2ZnCl_4$ and $[N(CH_3)_4]_2CoCl_4$ crystals - Sveleba et al. 183 (1993) 183
*Mössbauer nuclear quadrupole splitting*
– Electronic states and $Fe^{2+}$ quadrupole splitting in $Fe[(CH_3)_2SO]_6(ClO_4)_2$ under orbit–lattice interaction - Sinha 183 (1993) 312
*Multiple quantum well systems*
– On the interpretation of optical spectra in GaAs/AlGaAs SL and MQW systems - Adelabu 183 (1993) 264

*n-GaAs, epitaxial*
– 1/*f*-Noise in the Hall voltage of epitaxial n-GaAs - Ren and Liberis 183 (1993) 40
*Narrow samples*
– The s-physics of — - Roth 183 (1993) 161
*Neutron diffraction*
– The cooperative Jahn–Teller effect in $BaFe_{2.5}Mn_{9.5}O_{19}$ - Jirák et al. 183 (1993) 96
*Neutron scattering*
– — of homonuclear diatomic liquids - Zoppi 183 (1993) 235
*NMR*
– Spin-lattice relaxation and self-diffusion near the critical point of carbon dioxide - Etesse et al. 183 (1993) 45
– Time-dependent self-diffusion by — spin-echo - Stepišnik 183 (1993) 343
*Noise, 1/f*
– 1/*f*-Noise in the Hall voltage of epitaxial n-GaAs - Ren and Liberis 183 (1993) 40
*Noncollinear magnetic structures*
– Field-induced — in Al-stabilized $RCo_2$ Laves phases - Brommer et al. 183 (1993) 363

*Nonequilibrium*
– Study on nonlinear and — phenomena of a samarium nitrate crystal by measuring time series of AC conduçtivities - Kawashima et al. 183 (1993) 135
*Nonlinearity*
– Study on nonlinear and nonequilibrium phenomena of a samarium nitrate crystal by measuring time series of AC conductivities - Kawashima et al. 183 (1993) 135

*Optical absorption*
– Interpretation of the — by indium ions in zinc oxide - Cordaro 183 (1993) 303
*Optical cross section*
– Interpretation of the optical absorption by indium ions in zinc oxide - Cordaro 183 (1993) 303
*Optical-phonon scattering*
– 1/*f*-Noise in the Hall voltage of epitaxial n-GaAs - Ren and Liberis 183 (1993) 40
*Orbit–lattice interaction*
– Electronic states and $Fe^{2+}$ quadrupole splitting in $Fe[(CH_3)_2SO]_6(ClO_4)_2$ under — - Sinha 183 (1993) 312

*Paramagnetism*
– Studies of the frequency dependence of the EPR line-width in $CsMnCl_3 \cdot 2H_2O$ - Popov and Katrich 183 (1993) 211
*Percolation*
– On alternating dynamical systems and — - Ahmed 183 (1993) 399
*Perturbation theory*
– Screening effects on plasmon damping in an electron liquid - Bachlechner et al. 183 (1993) 293
*Phase interface constitution*
– Calculations of the — during the non-equilibrium growth of binary eutectics - Chvoj 183 (1993) 156
*Phase transition*
– Electrical resistivity and — behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
– The cooperative Jahn–Teller effect in $BaFe_{2.5}Mn_{9.5}O_{19}$ - Jirák et al. 183 (1993) 96
*Phonon dispersion relations*
– Lattice dynamics of γ-iron - Okoye and Pal 183 (1993) 279
*Photoconductivity*
– Steady state and transient — in amorphous thin films of $Se_{100-x}In_x$ - Srivastava et al. 183 (1993) 409
*Photoemission*
– A — investigation of deposition rate dependent growth of europium on silver films - Sørland and Raaen 183 (1993) 415
*Plasmon damping*
– Screening effects on — in an electron liquid - Bachlechner et al. 183 (1993) 293
*Plasmon excitations, surface*
– Surface plasmon excitations in $C_{60}$, $C_{60}K$ and $C_{60}H$ clusters - Rubio et al. 183 (1993) 247
*Polarons*
– Transitive coupled electron–phonon systems - Schneider and Sigmund 183 (1993) 57

*QENS*
– The power of quasielastic neutron scattering to probe biophysical systems - Deriu 183 (1993) 331
*Quantum mechanics*
– Transitive coupled electron–phonon systems - Schneider and Sigmund 183 (1993) 57

*Rare earth intermetallics*
– Electronic structure and crystal field in REMg and RERh (RE = rare earth) intermetallics - Diviš and Kuriplach 183 (1993) 25
– Magnetic properties and spontaneous magnetostriction of a $Sm_2Co_7$ single crystal - Bartashevich et al. 183 (1993) 369
– On the spin reorientation in $TbFe_{11}Ti$ and related compounds - Andreev et al. 183 (1993) 379
– Magnetic properties of $Tb_{1-x}R_xFe_{10}Si_2$ (R = Y, U) solid solutions - Andreev et al. 183 (1993) 385
*Rare earth sulfides*
– Unoccupied states in the rare earth monosulfides - Soldatov et al. 183 (1993) 187
– Local order and concentration fluctuations in K–Pb and — - Akinlade 183 (1993) 403
*Relaxation time, field-dependent*
– A study of magnetophonon resonance associated with high-field electronic transport - Suzuki 183 (1993) 191
*Rotating harmonic oscillator*
– Neutron scattering of homonuclear diatomic liquids - Zoppi 183 (1993) 235
*RPA*
– Calculation of the structure factor of expanded liquid cesium using the random phase approximation with one-component-plasma reference - Iwamatsu 183 (1993) 419

*S-physics*
– The — of narrow samples - Roth 183 (1993) 161
*Samarium nitrate crystal*
– Study on nonlinear and nonequilibrium phenomena of a — by measuring time series of AC conductivities - Kawashima et al. 183 (1993) 135
*Screening*
– — effects on plasmon damping in an electron liquid - Bachlechner et al. 183 (1993) 293
*$Se_{1-x}Ge_x$ chalcogenide glass*
– Short- and medium-range order in Se–Ge glassy systems (I) Effect of composition - Hafiz et al. 183 (1993) 392
*Self-diffusion*
– Time-dependent — by NMR spin-echo - Stepišnik 183 (1993) 343
*Self-diffusion coefficient*
– Spin-lattice relaxation and self-diffusion near the critical point of carbon dioxide - Etesse et al. 183 (1993) 45
*$Se_{100-x}In_x$*
– Steady state and transient photoconductivity in amorphous thin films of $Se_{100-x}In_x$ - Srivastava et al. 183 (1993) 409
*Short-range order*
– Short- and medium-range order in Se–Ge glassy systems (I) Effect of composition - Hafiz et al. 183 (1993) 392
*Space-charge conduction*
– High-field conduction in a-$Se_{80}Te_{20}$ and a-$Se_{80}Te_{10}M_{10}$ (M = Ag, Cd or Sb) - Kumar et al. 183 (1993) 172
*Specific heat*
– Thermal properties of KCl in a modified Einstein model - Kwon et al. 183 (1993) 75
*Spectroscopy, resonant ultrasound*
– Resonant ultrasound spectroscopic techniques for measurement of the elastic moduli of solids - Migliori et al. 183 (1993) 1

*Spin-echo*
– Time-dependent self-diffusion by NMR — - Stepišnik 183 (1993) 343
*Spin fluctuation*
– Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
*Spin Hamiltonian*
– ESR study on $Eu^{2+}$ in crystallite $BaSO_4$ - Hou et al. 183 (1993) 83
*Spin-lattice relaxation*
– — and self-diffusion near the critical point of carbon dioxide - Etesse et al. 183 (1993) 45
*Spin reorientation*
– On the — in $TbFe_{11}Ti$ and related compounds - Andreev et al. 183 (1993) 379
*Spin wave damping*
– On the studies of spin-wave dynamics in ferromagnets by polarized neutron scattering - Toperverg et al. 183 (1993) 326
*Spontaneous magnetostriction*
– Magnetic properties and — of a $Sm_2Co_7$ single crystal - Bartashevich et al. 183 (1993) 369
*Structure factor*
– Calculation of the — of expanded liquid cesium using the random phase approximation with one-component-plasma reference - Iwamatsu 183 (1993) 419
*Structure properties*
– Magnetic properties of $YFe_{12-x}Mo_x$ and $YFe_{12-x}Mo_xN_y$ ($0.5 \leqslant x \leqslant 4.0$, $y \approx 1$) - Sun et al. 183 (1993) 33
*Superlattice, Cu/Ni*
– In-plane resistivity study in a Cu/Ni superlattice - Abdul-Razzaq 183 (1993) 53
*Superlattices*
– On the interpretation of optical spectra in GaAs/AlGaAs SL and MQW systems - Adelabu 183 (1993) 264

*Thermodynamics*
– Thermodynamic properties of amorphous ferromagnets near the Curie point (I) - Krasny et al. 183 (1993) 115
*Transition-metal surfaces, BCC*
– Many-body theory of BCC transition-metal surfaces - Chen 183 (1993) 271
*Two-dimensional conductors*
– Velocity renormalization near the Mott transition in a perfectly ordered lattice - Burlachkov and Weger 183 (1993) 283

*U*
– Electrical resistivity and phase-transition behaviour of uranium under pressure and temperature - Sahu et al. 183 (1993) 145
*Uranium intermetallics*
– Magnetic properties of $Tb_{1-x}R_xFe_{10}Si_2$ (R = Y, U) solid solutions - Andreev et al. 183 (1993) 385

*$V^{2+}$ ion*
– Investigation of the stress dependences of optical and EPR spectra for a $KMgF_3:V^{2+}$ crystal - Zheng 183 (1993) 317
*Valence force field model*
– On the lattice dynamics of alkali metals - Ramamurthy 183 (1993) 321

*Velocity autocorrelation*
– Time-dependent self-diffusion by NMR spin-echo - Stepišnik 183 (1993) 343

*X-ray diffraction*
– Short- and medium-range order in Se–Ge glassy systems (I) Effect of composition - Hafiz et al. 183 (1993) 392
*XANES*
– Unoccupied states in the rare earth monosulfides - Soldatov et al. 183 (1993) 187

*$YBa_2Cu_3O_{7-\delta}$*
– High-dose ion implantation in — films - Khassanov et al. 183 (1993) 87
*$YFe_{12-x}Mo_x$*
– Magnetic properties of — and $YFe_{12-x}Mo_xN_y$ ($0.5 \leq x \leq 4.0$, $y \approx 1$) - Sun et al. 183 (1993) 33
*$YFe_{12-x}Mo_xN_y$*
– Magnetic properties of $YFe_{12-x}Mo_x$ and — ($0.5 \leq x \leq 4.0$, $y \approx 1$) - Sun et al. 183 (1993) 33

*ZnO, In-doped*
– Interpretation of the optical absorption by indium ions in zinc oxide - Cordaro 183 (1993) 303